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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,902	12/09/2003	Woo-Chang Lee	101190-00037	3315
4372	7590 07/20/2006		EXAMINER	
ARENT FOX PLLC 1050 CONNECTICUT AVENUE, N.W. SUITE 400			CASTELLANO, STEPHEN J	
			ART UNIT	PAPER NUMBER
WASHINGTO	WASHINGTON, DC 20036			
			DATE MAILED: 07/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/729,902	LEE, WOO-CHANG				
		Examiner	Art Unit				
		Stephen J. Castellano	3727				
Period for Re	e MAILING DATE of this communication app ply	ears on the cover sheet with the c	orrespondence address				
WHICHEN - Extensions after SIX (6 - If NO perio - Failure to re Any reply re	ENED STATUTORY PERIOD FOR REPLY /ER IS LONGER, FROM THE MAILING DA of time may be available under the provisions of 37 CFR 1.13 ) MONTHS from the mailing date of this communication. di for reply is specified above, the maximum statutory period we eply within the set or extended period for reply will, by statute, seceived by the Office later than three months after the mailing ent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠ Res	ponsive to communication(s) filed on 19 Ma	av 2006					
		action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of	of Claims						
4)⊠ Claim(s) <u>2</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠ Clai	⊠ Claim(s) <u>2</u> is/are rejected.						
7)∐ Clai	Claim(s) is/are objected to.						
8)∏ Clai	m(s) are subject to restriction and/or	election requirement.					
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority unde	r 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No. <u>09/741836</u> .							
3	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
See (	ne attached detailed Office action for a list of	of the certified copies not receive	u.				
Attachment(s)							
1) Notice of F	deferences Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of D	raftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte				
3) [X] Information Paper No(s	Disclosure Statement(s) (PTO-1449 or PTO/SB/08) s)/Mail Date 12-08	5) I Notice of Informal P 6) Other:	atent Application (PTO-152)				

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 recites a "bottomless ... tank" in the preamble and a "bottomless spar" in the body of the claim in line 2, a "pliable film for preventing oil in the tank and sea water from adhering to each other" is stated in the last two lines. The pliable film is shown in Fig. 3 extends across the bottom of the tank because Fig. 3 is a plan view section at section A of Fig. 1 viewing the bottom of the tank. The term "bottomless" contradicts the term "pliable film" as defining a pliable film bottom as this term is supported in the specification.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Shurtleff.

Shurtleff discloses a bottomless spar-type oil storage tank insofar as disclosed by applicant to be bottomless with a pliable film bottom, the tank comprises a bottomless spar insofar as disclosed by applicant to be bottomless with a pliable film bottom, the tank comprises a buoy (53, or the floating barrier fence with the storage tank supported therebeneath), dual walls (15 and 17) for solving a buoyancy and ballasting problem, and a pliable film (61) for preventing oil in the tank and sea water from adhering to each other (see the dotted line representation

denoted 68 in Fig. 1 and lines 25-45 of col. 3 which explains a transport mode in which membrane 61 extends across the open bottom to seal the open bottom with inflatable sealing element 57 including membrane 61 and inflatable peripheral portion 59). The transport mode inherently provides oil storage.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Castellano whose telephone number is 571-272-4535. The examiner can normally be reached on increased flexibility plan (IFP).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Stephen J. Castellano Primary Examiner Art Unit 3727